查询ARF220供应商

ANSALDO

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FAST RECOVERY DIODE

ARF220

Repetitive voltage up to **1400 V**
Mean forward current **445 A**
Surge current **5 kA**

FINAL SPECIFICATION
ott 97 - ISSUE : 02

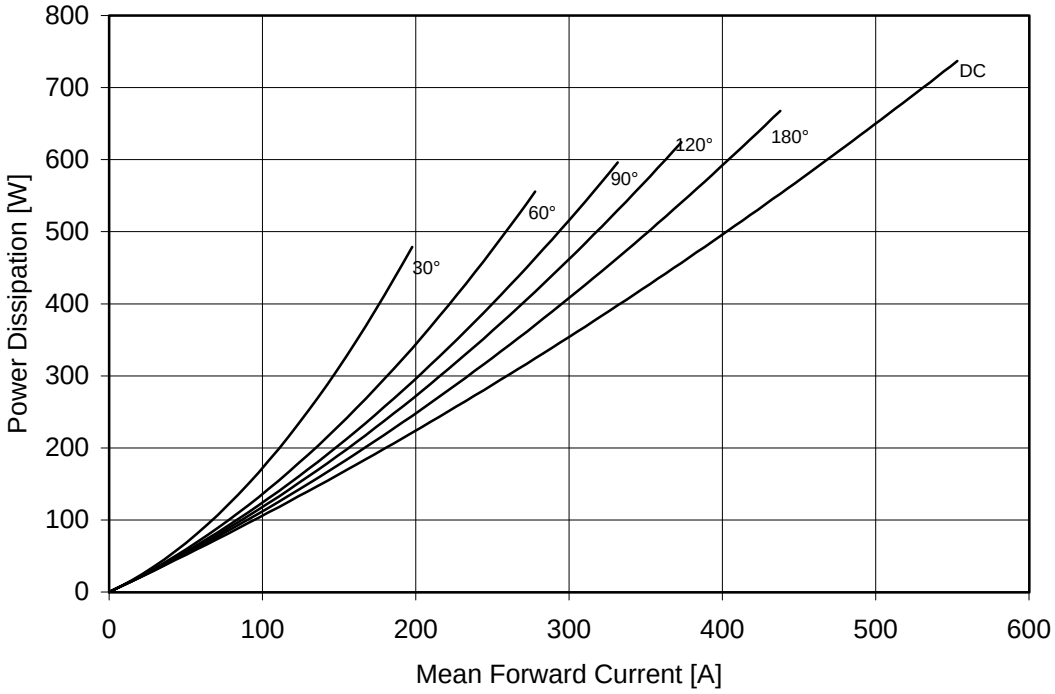
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKING					
V_{RRM}	Repetitive peak reverse voltage		125	1400	V
V_{RSM}	Non-repetitive peak reverse voltage		125	1500	V
I_{RRM}	Repetitive peak reverse current	V=VRRM	125	50	mA
CONDUCTING					
$I_{F(AV)}$	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		445	A
$I_{F(AV)}$	Mean forward current	180° square,50 Hz,Th=55°C,double side cooled		440	A
I_{FSM}	Surge forward current	Sine wave, 10 ms reapplied reverse voltage up to 50% VRSM	125	4.5	kA
I^2t	I^2t			101 x1E3	A^2s
V_{FM}	Forward voltage	Forward current 300 A	125	1.18	V
$V_{F(TO)}$	Threshold voltage		125	1.00	V
r_F	Forward slope resistance		125	0.60	mohm
SWITCHING					
t_{rr}	Reverse recovery time	I F = 200 A di/dt = 40 A/µs VR = 50 V	125	2.5	µs
Q_{rr}	Reverse recovery charge			80	µC
I_{rr}	Peak reverse recovery current			70	A
s	Softness (s-factor), min			0.4	
V_{FR}	Peak forward recovery	di/dt = 400 A/µs			V
MOUNTING					
$R_{th(j-h)}$	Thermal impedance	Junction to heatsink, double side cooled		95	°C/kW
T_j	Operating junction temperature			-30 / 125	°C
F	Mounting force			4.5 ÷ 5.0	kN
	Mass			55	g

ORDERING INFORMATION : ARF220 S 14

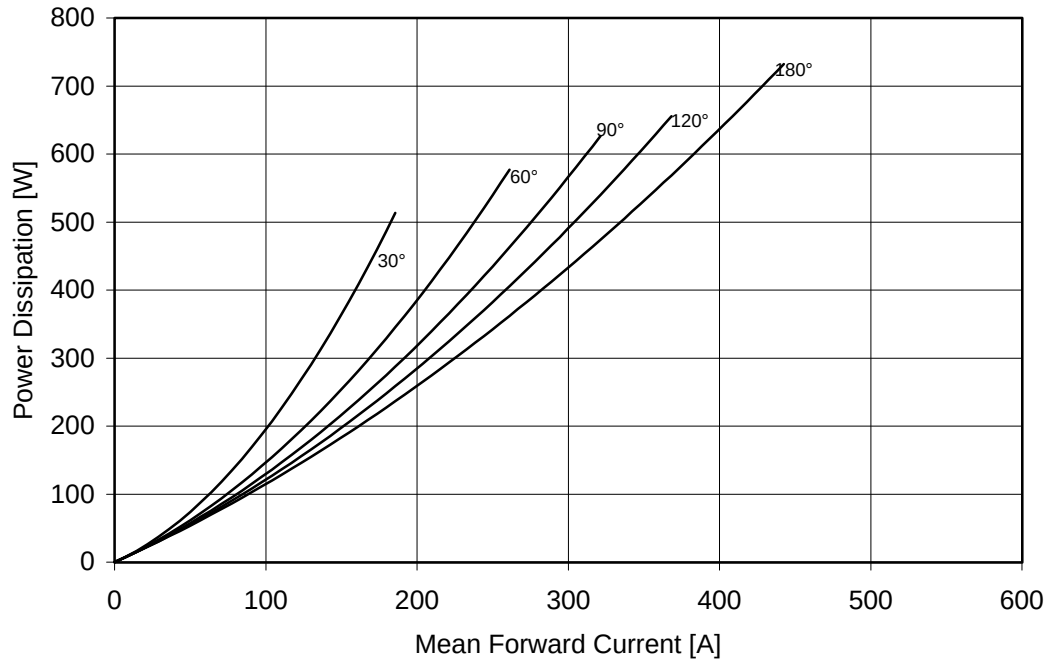
standard specification — VRRM/100

DISSIPATION CHARACTERISTICS

SQUARE WAVE

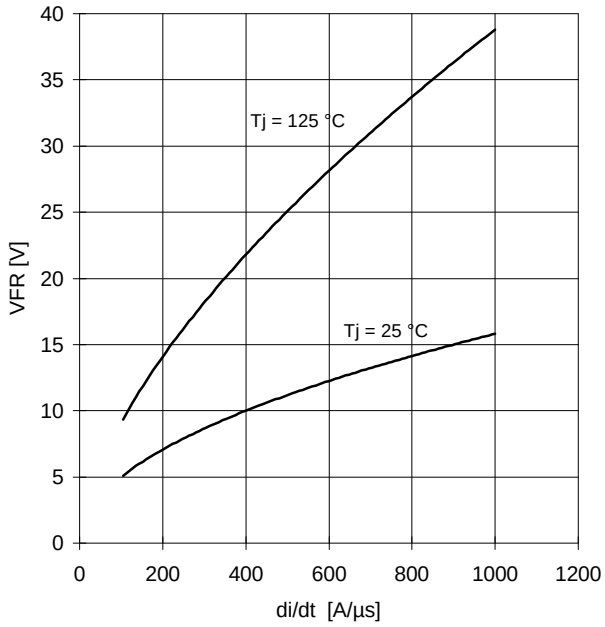


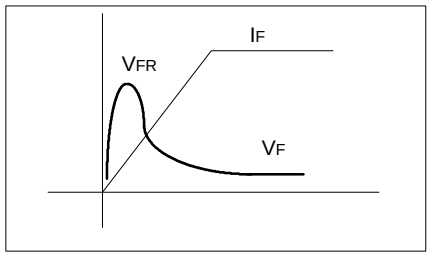
SINE WAVE



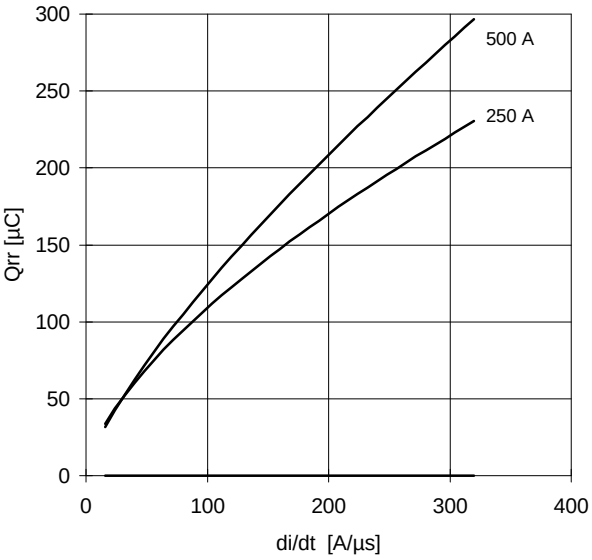
SWITCHING CHARACTERISTICS

FORWARD RECOVERY VOLTAGE

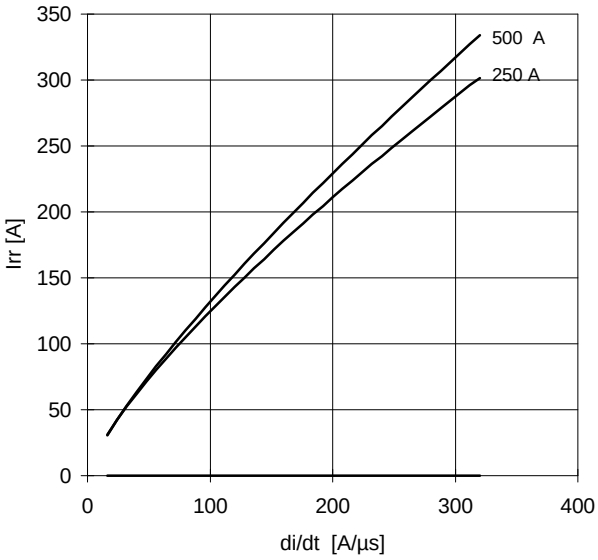




REVERSE RECOVERY CHARGE
Tj = 125 °C



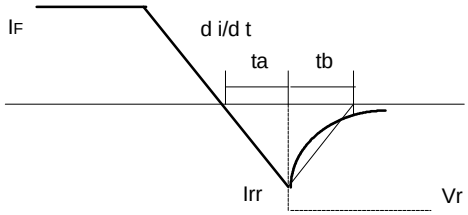
REVERSE RECOVERY CURRENT
Tj = 125 °C



ta = Irr / (di/dt) tb = trr - ta

Softness (s factor) s = tb / ta

Energy dissipation during recovery Er = Vr · (Qrr - Irr ·ta / 2)



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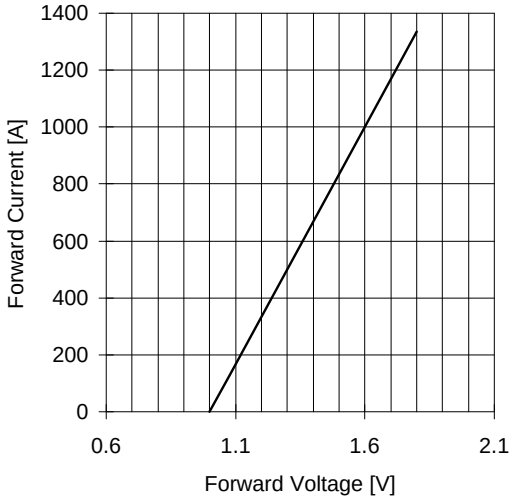
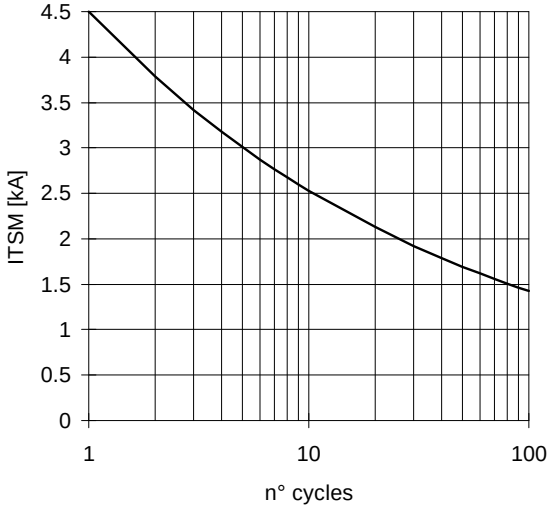
FINAL SPECIFICATION ott 97 - ISSUE : 02

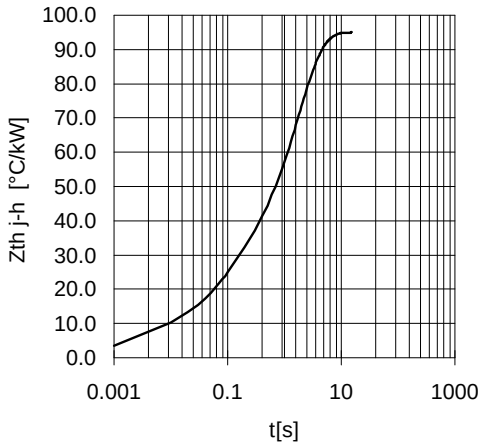
FORWARD CHARACTERISTIC
Tj = 125 °C

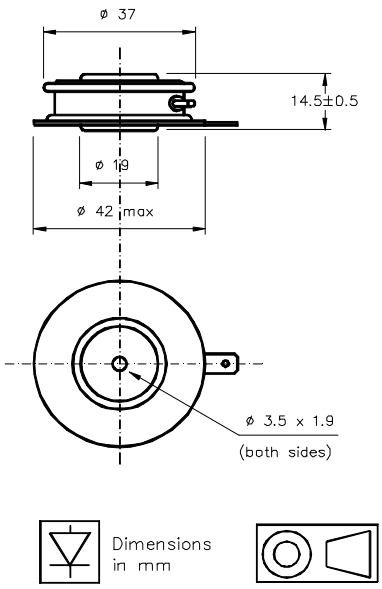


SURGE CHARACTERISTIC
Tj = 125 °C



TRANSIENT THERMAL IMPEDANCE
DOUBLE SIDE COOLED





All the characteristics given in this data sheet are guaranteed only with uniform clamping force, cleaned and lubricated heatsink, surfaces with flatness < .03 mm and roughness < 2 µm.
In the interest of product improvement ANSALDO reserves the right to change any data given in this data sheet at any time without previous notice.
If not stated otherwise the maximum value of ratings (simbols over

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